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AMSAT NEWS SERVICE
ANS-122

The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to:
ans-editor at amsat.org.

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ANS-122 AMSAT News Service Weekly Bulletins

AMSAT News Service Bulletin 122.01
  From AMSAT HQ Kensington, MD.
May 1, 2016
To All RADIO AMATEURS
BID: $ANS-122.01

Three New CubeSats Now in Orbit

Signals have been received from the three CubeSats launched April 25 on Soyuz
flight VS14 from the Kourou spaceport in South America.

The three CubeSats were developed by student teams under the European Space Agency (ESA) Education Office “Fly Your Satellite!” program, which is aimed at
training the next generation of aerospace professionals. The satellites are OUFTI-1, Université of Liège, Belgium; e-st(a)r-II, Polytechnic of Turin, Italy;
AAUSAT-4, University of Aalborg, Denmark.

The signal from the e-st(a)r satellite 1200 bps beacon is very weak which may indicate an antenna deployment issue or unexpectedly low transmit power. ESA report the e-st(a)r team is working to consolidate the radio communication link
with their satellite.

OUFTI-1 carries the first dedicated amateur D-Star satellite transponder,

further information and frequencies of all three CubeSats are at
https://amsat-uk.org/2016/04/05/d-star-satellite-to-launch-from-kourou/

Daniel Estévez EA4GPZ used a FUNcube Dongle Pro+ and a handheld Arrow Satellite
antenna to receive a signal from AAUSAT-4, call sign OZ4CUB.
http://destevez.net/2016/04/first-signals-from-aausat-4/

OUFTI-1 reports http://www.dk3wn.info/p/?cat=321

e-st(a)r reports http://www.dk3wn.info/p/?cat=84

AAUSAT-4 reports http://www.dk3wn.info/p/?cat=8

[ANS thanks AMSAT-UK for the above information]

Tomsk-TPU-120 CubeSat Celebrates University Anniversary

The Russian Tomsk-TPU-120 CubeSat is different from other CubeSats – it has a
handle!

The 3U CubeSat was launched from Baikonur to the ISS on March 31, 2016 in a
Progress-MS-2 cargo vessel. It will be deployed by hand during a future Russian
spacewalk (EVA), which is why it has a handle.

The satellite was developed by students at the Tomsk Polytechnic University to
test new space materials technology and will be the world’s first space vehicle
with a 3D-printed structure.

In May 2016 Tomsk Polytechnic University celebrates its 120th anniversary. As
part of the celebrations on May 10-11 Tomsk-TPU-120 will be activated in the ISS
and will transmit a greeting to Earth inhabitants, recorded by students of the
university in 10 languages: Russian, English, German, French, Chinese, Arabic,
Tatar, Indian, Kazakh and Portuguese.

The greeting signal will be transmitted once a minute on 437.025 MHz FM. One of
the Kenwood transceivers on the ISS will provide a simulcast of the
signal on 145.800 MHz FM.

Dmitry Pashkov R4UAB reports that on May 5 the Russian ISS crew will charge the
satellite battery, connect the antenna and configure the Kenwood transceiver for
simulcast operation, they will then make a test transmission.

Dmitry operates a WebSDR which you can use to receive the transmissions when the
ISS is over Russia http://websdr.r4uab.ru/

The next Russian spacewalk appears to be EVA-43 which expected to take place in

early 2017 http://spaceflight101.com/iss/iss-calendar/

Use Google translator to read original article by Dmitry Pashkov R4UAB
http://r4uab.ru/?p=11845

World’s First 3D-printed Satellite http://tpu.ru/en/news-events/760/

[ANS thanks Gunter's Space Page, R4UAB, and AMSAT-UK for the above information]

Audio Recordings of FO-12 and AO-15 Requested

Mathias, DD1US, maintains a homepage at www.dd1us.de Included is a section called "Sounds from Space".

More than 1000 recordings of various satellite and space objects have been collected and are available for listening.

Mathias is still searching for various recordings of Amateur Radio Satellites,
especially for Fuji-OSCAR-12 and UoSAT-OSCAR-15. If you have old tapes or cassettes with recordings of Ham Radio Satellites he will be happy to digitize
them and add them to the archive.

[ANS thanks Mathias, DD1US, for the above information]

ZACUBE-1 Beacon Preparations to be Presented at AMSAT SA Space Symposium

Students from the Cape Peninsula University of Technology will present a paper
at the AMSAT SA Space Symposium on the high frequency beacon transmitter developed to test a three element direction finding array constructed at SANSA
Space Science in Hermanus to receive the 14 099 kHz HF beacon signal from ZACUBE-1 and future ZACUBE-i space weather missions. A ground-based transmitter
was developed for verification and calibration of this array. The signal will be
used to verify the operation of the hardware and software used to determine the
direction of arrival of the incoming signal. More about the symposium on 28 May
2016, details on the many papers to be presented and how to register for the event can be found on www.amsatsa.org.za

[ANS thanks the SARL weekly news in English 2016-4-30 for the above information]

Upcoming ARISS Contact Schedule

Ashfield Primary School, Otley, West Yorkshire, UK, direct via GB1APS
The ISS callsign is presently scheduled to be GB1SS
The scheduled astronaut is Timothy Peake KG5BVI

Contact is a go for: Thu 2016-05-05 08:08:09 UTC 46 deg (***)

All Saints STEAM Academy (AS2A), Middletown, Rhode Island, direct via
N1ASA
The ISS callsign is presently scheduled to be TBD
The scheduled astronaut is Tim Kopra KE5UDN or Jeff Williams KD5TVQ
Contact is a go for: Fri 2016-05-06 16:43:47 UTC 56 deg (***)

[ANS thanks Charlie, AJ9N, for the above information]

Possible Satellite Activation CY9C St. Paul Island August 2016

CY9C, ST. PAUL ISLAND DXPEDITION (August 19-29th). Randy, N0TG, reports
the following on April 16th: As was reported previously, we will have
two separate sites...separated approximately 1.5 miles.

   Site 1 will be the Atlantic Cove site with 6 operators. We will try
   to keep 4-5 radios running and more if 12/10m opens. Our plan is to
   have a RTTY station active at all times. From this site 160 will be
   given lots of attention with the Battle Creek Special antenna.

   Site 2 - the Northeast Point separate island will be enhanced to include
   4 -5 operators active at all times, thus the dxpedition in total can
   potentially have 8-10 radios working most of the time. We are seriously
   considering 6m EME and Satellite, however, we need to work out the
   planning details. And, as always, budget matters are a significant
   consideration as we expand operations. We appreciate the support by
   many to date.   The desire is to make this a very complete operation
   that will offer fun and meeting needs for all interests.

   The CY9C Web page is: http://www.CY9Dxpedition.com

[ANS thanks the Ohio/Penn DX Bulletin #1263 for the above information]

IARU Region 2 Call for EmComm Workshop Papers, Presentations

International Amateur Radio Union Region 2 (IARU-R2) will hold an Emergency
Communications Workshop in Chile this fall, in conjunction with the 19th
IARU
Region 2 General Assembly. The conference committee is inviting papers and
presentations the event. The workshop on October 11 in Viña del Mar,
Chile, will
offer an opportunity for Region 2 emergency coordinators and other national-
level Amateur Radio emergency communication experts to network and to share
information on Amateur Radio emergency response as well as to augment the
capabilities of the region’s amateurs to react to large-scale, multinational
communication emergencies.

The event is open to radio amateurs in IARU Region 2 with high-level
expertise
in providing disaster and emergency communication. Attendees will be
responsible
for their travel and lodging costs. A block of rooms will be available
at the
O’Higgins Hotel in downtown Viña del Mar.

Link to Register online:

http://www.arrl.org/news/iaru-region-2-calls-for-emergency-communications-workshop-papers-presentations

Call for Papers

Delegates representing IARU Region 2 member societies, national or international
Amateur Radio emergency communication organizations, or national/international-
level subject matter experts in Amateur Radio emergency communication are invited to submit proposals and informational papers. Topics must be related to
Amateur Radio emergency communication, disaster response, technology, or operating standards.

Documents must be in electronic form (MS Word or Power Point). When laying out
the document format, use A4 paper with at least 3-centimeter margins on all sides. The title page should have a top margin of at least 6 centimeters. Do not
insert page headers or footers.

The deadline to submit is July 1. The IARU Region 2 Emergency Communications Workshop Committee will select the most appropriate papers for presentation. All
other submitted materials will be compiled for distribution to all delegates and
will be posted on the Region 2 website for downloading.

Direct submissions in English to ecw(a)iaru-r2.org; direct submissions in Spanish
to tce(a)iaru-r2.org.

The Emergency Communications Workshop will be held on Tuesday, October 11, at
the Hotel O'Higgins in Viña del Mar from 9 AM until 6 PM.

[ANS thanks the ARRL and IARU for the above information]

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In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive addi-
tional benefits. Application forms are available from the AMSAT Office.

Primary and secondary school students are eligible for membership at one-half the standard yearly rate. Post-secondary school students enrolled in at least half time status shall be eligible for the stu-
dent rate for a maximum of 6 post-secondary years in this status. Contact Martha at the AMSAT Office for additional student membership information.

73,
This week's ANS Editor,
Lee McLamb, KU4OS
ku4os at amsat dot org